

CLAIMS

1. A process for producing 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde which comprises reacting 2'-cyanobiphenyl-4-carbaldehyde with a salt of azide.
5
2. The process according to Claim 1, wherein the salt of azide is an azide of organic base.
3. The process according to Claim 2, wherein the azide of organic base is the one
10 prepared by an azide of inorganic base and a salt of organic base in the reaction system.
4. The process according to Claim 1, wherein 2'-cyanobiphenyl-4-carbaldehyde is obtained by reacting 2'-cyano-4-(bromomethyl)biphenyl and/or 2'-cyano-4-(dibromomethyl)biphenyl with hexamethylenetetramine, acetic acid and water,
15 and 2'-cyano-4-(bromomethyl)biphenyl and/or 2'-cyano-4-(dibromomethyl)biphenyl is obtained by brominating 2'-cyano-4-methylbiphenyl.
5. The process according to Claim 4, wherein the bromination is conducted by bromine in the presence of a radical initiator and an oxidizer
20
6. The process according to Claim 1, wherein the reaction of 2'-cyanobiphenyl-4-carbaldehyde with the salt of azide is conducted in a solvent.
7. The process according to Claim 1, which further comprises obtaining a crystal of
25 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde after the reaction.
8. The process according to Claim 7, which further comprises, after the obtainment of

the crystal, dissolving said crystal and recrystallizing a highly pure crystal in tetrahydrofuran.

9. A process for producing a highly pure crystal of
- 5 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde which comprises reacting 2'-cyanobiphenyl-4-carbaldehyde with a salt of azide, obtaining a crystal of 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde, dissolving said crystal obtained and recrystallizing a highly pure crystal in tetrahydrofuran.
- 10 10. A process for purifying a crystal of 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde which comprises dissolving a crude crystal of 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde containing 2'-(1H-tetrazol-5-yl)biphenyl-4-carboxylic acid, and recrystallizing a highly pure crystal of 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde substantially containing no
- 15 2'-(1H-tetrazol-5-yl)biphenyl-4-carboxylic acid in tetrahydrofuran.
11. A highly pure crystal of 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde substantially containing no 2'-(1H-tetrazol-5-yl)biphenyl-4-carboxylic acid.
- 20 12. A highly pure crystals of 2'-(1H-tetrazol-5-yl)biphenyl-4-carbaldehyde wherein 2 θ of the crystal has main peaks at 9.2, 20.6, 25.7 and 26.9 when analyzed by X-ray diffraction analysis.